

Date: Fri, 27 May 94 02:40:41 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #581
To: Info-Hams

Info-Hams Digest Fri, 27 May 94 Volume 94 : Issue 581

Today's Topics:

150 Years
6146A vs 6146
ARLB047 FCC call sign update
Guests needed!
HAMS in Oswego, NY area
ICOM IC-745 opinions please...
IPS Daily Report - 26 May 94
Latest FCC call signs...
lithium AA cells, 1.5 volts?
Logging software?
QRZ Beta Testers Needed
WANTED:2MTR BEAM INFO!

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 27 May 1994 01:58:06 GMT
From: ihnp4.ucsd.edu!agate!msuinfo!harbinger.cc.monash.edu.au!trlluna!titan!
pcies4.trl.OZ.AU!drew@network.ucsd.edu
Subject: 150 Years
To: info-hams@ucsd.edu

In article <94144.070103WJS@MAINE.MAINE.EDU> <WJS@MAINE.MAINE.EDU> writes:
>Date: Tue, 24 May 1994 07:01:03 EDT
>From: <WJS@MAINE.MAINE.EDU>
>Subject: 150 Years
>Today's the day it all began. One hundred fifty years ago today, March 24,

>1844 Samuel F.B. Morse sat at a table in the US Capitol building in Washington
>and sent the first public telegraph message to his assistant, Alfred Vail, in
>Baltimore. Morse's first message -- What hath God wrought -- opened the age
>of electronic communications.

>

>

> 73, Mr. Morse, and tnx

>

> -K1AG

Interesting how things go round in cycles. Here we are, 150 years
after Morse, sitting at our "workstations", tapping away.

Now we are all telegraphists (or telegraphers- look it up).

Drew. Telecom Australia Research Laboratories.

Date: Fri, 27 May 1994 01:56:49 GMT

From: ihnp4.ucsd.edu!swrinde!emory!cs.utk.edu!stc06r.CTD.ORNL.GOV!fnnews.fnal.gov!
att-in!cbnewsm!hellman@network.ucsd.edu

Subject: 6146A vs 6146

To: info-hams@ucsd.edu

>

> >Greetings! I have two Heathkit HW-101s sitting on my desk at home.
> >One, appears to have been bought and assembled when the rig was first
> >released. It uses 6146s (or 6146as or 6146bs) for the finals. The
> >other which was bought and built in '79 has a sticker on the back
> >which states that only 6146As should be used. Can anyone enlighten
> >me on the specifics of the 6146 family? I've put together quite a
> >collection of spare 6146s and 6146bs and hate to think that it was
> >all for naught.

> >

> --

Since no one else has picked up on this, I'll put in my recollections.
Back in the early 70's, someone from the local Heathkit store spoke at
a club meeting and advised us not to use the 6146B version. I don't
remember if he was clear on the exact reason but my guess is that the
capacitance in the "B" is different and can't be neutralized by the
Heathkit circuit. I never used the "B" and I've had at least three
transmitters with 6146's. (Boy I hope I'm not the oldest OF on the net.)
Two of those transmitters are on the same table as my TS440 and all
have been used within the last year.

Shel Darack WA2UBK dara@physics.att.com

Date: Thu, 26 May 1994 16:52:47 EDT
From: psinntp!arrl.org!usenet@uunet.uu.net
Subject: ARLB047 FCC call sign update
To: info-hams@ucsd.edu

SB QST @ ARL \$ARLB047
ARLB047 FCC call sign update

ZCZC AG12
QST de W1AW
ARRL Bulletin 47 ARLB047

Date: Thu, 26 May 1994 17:54:38
From: news2.sprintlink.net!news.sprintlink.net!indirect.com!
s146.phxslip.indirect.com!lenwink@uunet.uu.net
Subject: Guests needed!
To: info-hams@ucsd.edu

The Ham Radio & More national radio show is always on the look out for guests. The show has been going for over 3 years in Phoenix on KFNN, 1510am, and since November 28, 1993 on the Talk America Network. It's also available via satellite on Spacenet3, Transponder 9, 6.8 audio and on more than 22 different affiliated radio stations throughout much of the country. It's a show that deals with ALL the many aspects of amateur radio and it's hard to keep coming up with new guests and topics every week. If you have a particular special interest or know of a ham with something unusual, exciting, and interesting, please e-mail me at lenwink@indirect.com, or fax me at 602-241-1540, or usnail at Ham Radio & More, 4800 N. Central, Phoenix, Az. 85012.
Thanks in advance & 73,
Len, KB7LPW

Date: 26 May 94 19:33:18 EST
From: ihnp4.ucsd.edu!swrinde!gatech!news-feed-1.peachnet.edu!news.duke.edu!eff!
news.kei.com!babbage.ece.uc.edu!ucbeh!ucbeh!nntp@network.ucsd.edu
Subject: HAMs in Oswego, NY area
To: info-hams@ucsd.edu

Hi, I will be moving to Oswego, NY to start an assistant professorship at SUNY-Oswego in August. I was wondering if there are any HAMs on the net from that area that can clue me in to all of the ham radio activity there and possibly point me in the right direction as far as finding a place to live. I'd like to rent for the first year or so and look for a house after that. I'll need at least 3 bedrooms and preferably four. Of

course alot of space to string an antenna will be nice too :-)) Any help would be appreciated. Please respond via email.

73 Jeff, WM1Y

schneja@ucunix.san.uc.edu

Date: 27 May 1994 02:34:39 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!wupost!waikato!auckland.ac.nz!ccu1.auckland.ac.nz!mjr@network.ucsd.edu
Subject: ICOM IC-745 opinions please...
To: info-hams@ucsd.edu

Would any hams using the IC-745 transceiver care to e-mail their opinions of the units to me? A friend is interested in purchasing one and would like to know of any problems/faults/good points etc.

I had my gear stolen recently so I'm also kinda interested...(there are a couple going 2nd hand).

T.I.A.
Mitchell Rodda (ZL1UFM)
mj.rodde@auckland.ac.nz

Date: Thu, 26 May 1994 23:22:23 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!pipex!sunic!trane.uninett.no!nac.no!ifi.uio.no!wabbit.cc.uow.edu.au!metro!ipso!rwc@network.ucsd.edu
Subject: IPS Daily Report - 26 May 94
To: info-hams@ucsd.edu

SUBJ: IPS DAILY SOLAR AND GEOPHYSICAL REPORT
ISSUED AT 26/2330Z MAY 1994 BY IPS RADIO AND SPACE SERVICES
FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY.
SUMMARY FOR 26 MAY AND FORECAST UP TO 29 MAY

IPS Warning 15 was issued on 26 May and is still current for interval 28 May to 7 June.

1A. SOLAR SUMMARY
Activity: very low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : 071/006

1B. SOLAR FORECAST

	27 May	28 May	29 May
Activity	Very low	Very low	Very low
Fadeouts	None expected	None expected	None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number : 070/005

1C. SOLAR COMMENT

None.

2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth: quiet to unsettled, with brief active period 09-12UT.

Estimated Indices : A	K	Observed A Index 25 May
Learmonth	11 2334 2222	
Fredericksburg	12	24
Planetary	15	20

Observed Kp for 25 May: 3544 2324

2B. MAGNETIC FORECAST

DATE	Ap	CONDITIONS
27 May	15	Quiet to unsettled.
28 May	20	Quiet to unsettled.
29 May	35	Quiet to unsettled initially, then increasing to active to minor storm levels.

2C. MAGNETIC COMMENT

Recurrent disturbance expected from 29 May onwards.

3A. GLOBAL HF PROPAGATION SUMMARY

DATE	LATITUDE BAND		
	LOW	MIDDLE	HIGH
26 May	normal	normal	fair

PCA Event : None.

3B. GLOBAL HF PROPAGATION FORECAST

DATE	LATITUDE BAND		
	LOW	MIDDLE	HIGH
27 May	normal	normal	fair
28 May	normal	normal	normal
29 May	normal	normal	normal-fair

3C. GLOBAL HF PROPAGATION COMMENT

NONE.

4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

MUFs at Sydney were near predicted monthly values, with 15-20% enhancements 08-13UT.

Observed T index for 26 May: 38

Predicted Monthly T Index for May is 30.

4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

DATE	T-index	MUFs
27 May	35	Near predicted monthly values.
28 May	30	Near predicted monthly values.
29 May	20	Near predicted monthly values.

4C. AUSTRALIAN REGION COMMENT

Degraded HF comms expected after 29 May.

--

IPS Regional Warning Centre, Sydney	IPS Radio and Space Services
email: rwc@ips.oz.au fax: +61 2 4148331	PO Box 5606
RWC Duty Forecaster tel: +61 2 4148329	West Chatswood NSW 2057
Recorded Message tel: +61 2 4148330	AUSTRALIA

Date: Thu, 26 May 1994 17:53:03 GMT
From: psinntp!arrl.org!gswanson@uunet.uu.net
Subject: Latest FCC call signs...
To: info-hams@ucsd.edu

FCC ISSUED CALL SIGN UPDATE

The following is a list of the FCC's most recently issued call signs as of May 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0QW	KG0MQ	++	KB0MOH
1	AA1JB	KD1UJ	N1RTU	KB1BHH
2	AA2SA	KF2UW	N2YOM	KB2QYJ
3	AA3HS	KE3MS	N3RX0	KB3BBM

4	AD4RM	KR4RG	++	KE4LLJ
5	AB5TW	KJ5WY	++	KC5GKD
6	AC6BV	K06AY	++	KE6GVP
7	AB7CA	KI7YB	++	KC7CBL
8	AA8OP	KG8IF	++	KB8SHJ
9	AA9KQ	KF9VF	N9WUM	KB9IXX
Hawaii	++	AH6NF	WH6UD	WH6CRG
Alaska	++	AL7PQ	WL7SF	WL7CHN
Virgin Is.	WP2L	KP2CC	NP2HL	WP2AHU
Puerto Rico	++	KP4WP	++	WP4MOZ

++All call signs in this group have been issued in this area, calls will be issued from the group to the right. Example: There are no 1 by 3 (Tech/Gen) calls left in Radio District 0 (zero), so the FCC will issue Tech/Gen licensees a 2 by 3 (Novice) call sign in Radio District 0. (Note: Current FCC processing time is from 12 to 17 weeks from the time that they receive the application in Gettysburg, PA.)

 Date: 26 May 94 23:37:45 GMT
 From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!paris.ics.uci.edu!ucivax!gateway@network.ucsd.edu
 Subject: lithium AA cells, 1.5 volts?
 To: info-hams@ucsd.edu

Anyone know a good source for reasonably priced 1.5 volt lithium AA sized cells? I am about to take off on the Pacific Crest Trail and will need to reliably power my 40 meter CW rig and 2 meter HT for a few hours each week, and I want to use the best I can find, which would be lithiums.

I wonder about sources and prices if anyone else has researched this.

Clark
 WA3JPG

 Date: Fri, 27 May 1994 01:04:23 GMT
 From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!darkstar.UCSC.EDU!news.hal.COM!olivea!news.bu.edu!att-in!cbnewsm!hellman@network.ucsd.edu
 Subject: Logging software?
 To: info-hams@ucsd.edu

>
 > I would like to start logging my QSO's on my computer. Any experiences/
 > suggestions/opinions as to how to start going about this would be appreciated.

>
> I have a PC clone, and would prefer something running inside windows. I
> am thinking maybe an ACCESS application or possibly a simple spreadsheet.
> I would think (hope) the spreadsheet would get too huge and unmanageable
> with time. Possibly a shareware program exists that someone might
> suggest?
>
> Thanks in advance and 73,
> Bill
>

My teenage son N2WKS (Advanced tested end of Feb --license arrived
this week) uses the spreadsheet in MicroSoft Works for his logging..
He tried a few logging programs before deciding to use the spreadsheet.

Shel Darack WA2UBK dara@physics.att.com

Date: 26 May 1994 18:39:52 -0700
From: ihnp4.ucsd.edu!swrinde!gatech!asuvax!pinyon.libre.com!not-for-
mail@network.ucsd.edu
Subject: QRZ Beta Testers Needed
To: info-hams@ucsd.edu

The QRZ! Ham Radio CDRom Volume 3, June 1994 Edition is about
ready to go to print and we need volunteers who are willing to
Beta test the new QRZ-II Windows software.

The new QRZ-II software is written in Visual Basic and uses a new,
QRZ Dynamic Link Library (.DLL). The DLL is compatible with VB
and should also be compatible with C, and C++, VC++. If you're
a software developer and would like an advance copy of the DLL,
please indicate so separately.

The QRZ-II software has a number of enhancements over the previous
versions of QRZ Windows including enhanced printing with adjustable
fonts and sizes, recently accessed callsign memory, new .DBF
output file formats, improved name searching and more.

I'd like to get 10 or so volunteers who would be willing to test
the software on their systems and report back to me via e-mail.
As a bonus, the top 6 bug reporters will receive a free copy of
Volume 3 when it becomes available.

If you'd like to be a QRZ Beta tester, here's what you'll need:

- o Your own copy of the current, December 1993 QRZ! CDRom

- o A PC running Windows 3.1 (hopefully a 386 or better) or -
- o a higher level system such as NT, OS/2, Wabi, or Soft Windows
- o Access to Internet ftp for the code
- o An Internet e-mail address
- o A sense of humor

Sorry, but I can't honor requests for those who are only "interested" in the new software. Instead, I need volunteers who will actively use the product and report back on their progress. The length of the Beta program will be approximately 2 weeks (gasp! is that all!?!?) and will begin immediately.

If you'd like to participate, please send an email to me at:

aa7bq@qrz.com

-fred

--

```
-----
| Fred Lloyd, AA7BQ                                     flloyd@qrz.com |
| Scottsdale, Arizona  USA                             Editor, QRZ! Ham Radio CDROM |
-----
```

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-----
Date: 26 May 1994 19:26:36 -0700
From: nntp.crl.com!crl2.crl.com!not-for-mail@decwrl.dec.com
Subject: WANTED:2MTR BEAM INFO!
To: info-hams@ucsd.edu
```

I am looking for a 2 meter beam, preferably, the diagrams and plans for the pvc 2 meter quad beam. I don't want to spend a ton of money and would even consider buying a homemade 2 meter quad at a reasonable price.

Any info would be greatly appreciated, or any sales offers would be greatly appreciated. Thanks.

Jay
KB6ENY

```
-----
Date: Thu, 26 May 1994 20:42:32 GMT
From: ihnp4.ucsd.edu!swrinde!emory!rsiatl!ke4zv!gary@network.ucsd.edu
To: info-hams@ucsd.edu
```

References <1994May23.091134.488@atlas.tntech.edu>,

<1994May25.063857.16162@ke4zv.atl.ga.us>, <CqF61o.Dus@alsys.com>

Reply-To : gary@ke4zv.atl.ga.us (Gary Coffman)

Subject : Re: 2 meter thru-glass

In article <CqF61o.Dus@alsys.com> garym@alsys.com (Gary Morris @ignite) writes:

>In <1994May25.063857.16162@ke4zv.atl.ga.us> gary@ke4zv.atl.ga.us (Gary Coffman) writes:

>>The primary disadvantage of thru-the-glass antennas is that the coax
>>isn't properly decoupled for stray RF.

>...

>>This leads to the typical problems of RF in the cabin.

>>It's often so bad that the coax does the majority of the radiating.

>

>So, how can one properly decouple the coax to minimize the stray RF if
>we choose to go with the thru-the-glass? I already have a hole in the center
>of the roof where the 220 1/4 wave is located, and have a cellular thru-the-
>glass mounted in the top-center of the rear window. Would grounding the coax
>at the base of the thru-the-glass antenna solve the decoupling problem?

Yes it would, but you can't because glass doesn't make a good RF ground, and any length of conductor over to a good RF ground has inductance. They tell you not to mount the antenna within 2 inches of the edge of the glass because the presence of metal near the antenna base screws up the capacitive coupling. That's also why you can't mount them over heater wires or over metalized glass tinting.

If you can get a good *short* low inductance coupling to RF ground from the coax shield at the antenna base, you can keep most of the RF off the coax. A piece of 5 inch wide copper flashing a couple of inches long should work. Get much longer and you're an appreciable fraction of a wavelength at 440 MHz. However, if you connect to the edge of the windshield frame, it becomes a slot radiator antenna, not the ground you were hoping to find. The window frame actually makes a pretty good slot radiator at two meters. That's why hooking up the little ground wire/tab they supply often makes RF in the cabin problems *worse* not better.

You could try slipping several large ferrite beads over the coax to form a choke balun. That might work OK, but looks unsightly hanging in the window.

>>Then there's the other problem of having the radiator mounted below
>>the greenhouse. The pattern is asymmetric. Never mind the radiating
>>coax for a minute, the whip itself fires RF through the cabin.

>

>Why would the whip fire RF thru the cabin, on any thru-the-glass antenna
>(mounted on the rear window) I've seen the entire whip is above the glass
>and about 95% above the roof itself (depending on the exact shape of the roof).

The entire whip isn't above the window. At least 5 cm of it has to be below the window edge to reach the capacitive coupled base. That's a lot at cellphone frequencies. And mounting close to the window frame can excite the frame as a slot radiator as mentioned above. Of course cellphones don't run much power, and don't need much of an antenna to perform satisfactorily, so through-the-glass antennas are good enough for that application. However, with ham rigs running 45 watts and operating on 2 meters or 70 cm, they just aren't very good, or very safe from the standpoint of RF exposure in the cabin.

In my truck, I use a Comet dualband antenna mounted in a hole in the center of the roof, and a triplexer, to handle 2 meters, 70 cm, and cellphone. The antenna really isn't resonant for cellphone, but like I said, it doesn't take much for cellphone, and the phones don't seem to care that they're operating into a mismatch. Getting the antenna out in the clear seems more important.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: 26 May 1994 16:23:02 -0700

From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!europa.eng.gtefsd.com!
newsxfer.itd.umich.edu!nntp.cs.ubc.ca!psgrain!news.tek.com!cascade.ens.tek.com!
not-for-mail@network.ucsd.edu

To: info-hams@ucsd.edu

References <gregCqDF5I.J7y@netcom.com>, <2s0pqq\$dc2\$1@rosebud.ncd.com>,
<2s2sr5\$b12@hplvec.lvld.hp.com>itd.

Subject : Re: Bizarre QST statement

I can't agree more about the old TR3/4's and T4X's. Drake built very fine equipment that were excellent first rigs for a new ham, myself included. They were easy to use, forgiving when mis-tuned, and went a long way keep a new guy from flat topping. Sadly, they are very dated now with the WARC bands and the no tune broadbanded solid state rigs. Kind of a pity not having to learn about dipping the plate and loading the load, HI HI (oh sorry, you new guys don't like ham speak).

Terry

KI7M

Date: Thu, 26 May 1994 20:03:52 GMT
From: psinntp!arrl.org!zlau@uunet.uu.net
To: info-hams@ucsd.edu

References <2rq96h\$13a6@watnews1.watson.ibm.com>,
<CqCq1q.H22@freenet.carleton.ca>, <phb.769876198@melpar>
Subject : Re: 40 to 50 mile range listening -- Which band to use/build?

Paul H. Bock K4MSG (phb@syseng1.melpar.esys.com) wrote:

: Good advice. In fact, at the range stated (40 to 50 miles) it should
: work OK in the daytime as well. 40 might actually work since it's close
: enough to give groundwave coverage even at night, but 80 would be best.

Due to the terrain W1AW groundwave coverage is actually quite poor--which
is probably a relief to most HF operators in CT! Doesn't take too many
rolling hills to wipe out the signal. I ought to know, living just one
mile away and making two thousand contacts from W1AW.... The guys that
picked the place weren't into VHF operating until a few years later...

--

Zack Lau KH6CP/1 2 way QRP WAS
 8 States on 10 GHz
Internet: zlau@arrl.org 10 grids on 2304 MHz

Date: 26 May 1994 22:49:12 GMT
From: ihnp4.ucsd.edu!agate!kabuki.EECS.Berkeley.EDU!kennish@network.ucsd.edu
To: info-hams@ucsd.edu

References <1994May24.142838.28167@cobra.uni.edu>,
<rohvm1.mah48d-260594075816@136.141.220.39>, <2s326i\$g0d@hpchase.rose.hp.com>
Subject : Re: Field Day!

In article <2s326i\$g0d@hpchase.rose.hp.com>,
Chris Moore <cmoore@mothra.rose.hp.com> wrote:

>

>Once you get this figure, what do you do with it? All the car batteries I've
>seen have just a "cold cranking amps" number, no amp-hour information. Maybe
>it's different for the deep-cycle marine batteries? If not, is there some
>way you can tell how long a battery can sustaining a particular current level
>based on the "cold cranking amps?"

>

>Chris Moore
>N6IYS
>cmoore@cancun.rose.hp.com

>

Well, there is a good reason auto batteries don't have Ah capacities. Their sole purpose in life is to give you hundreds of amps for a few seconds for as many days as possible. If you put them into cycling service such as for battery op radios, they will have a very short life. They aren't constructed for cycling and a few deep discharges will do them much harm... get a deep cycle (marine/rv/golf cart) battery. They aren't that much more expensive, and they are rated to do what you want.

If you still feel compelled to use car batteries (they are cheap), a useful figure is the "reserve capacity", defined as the number of minutes a fully charged battery will supply 25 amperes at 25 degrees C to 1.75V per cell. (That 77 deg. F for you metricphobes). This should give you some indication. Most batteries I've seen are in the 80 minute range.

Good luck.

-ken

Date: (null)
From: (null)
SB QST ARL ARLB047
ARLB047 FCC call sign update

FCC CALL SIGN UPDATE

The following is a list of the FCC's most recently issued call signs as of May 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0QW	KG0MQ	++	KB0M0H
1	AA1JB	KD1UJ	N1RTU	KB1BHH
2	AA2SA	KF2UW	N2YOM	KB2QYJ
3	AA3HS	KE3MS	N3RX0	KB3BBM
4	AD4RM	KR4RG	++	KE4LLJ
5	AB5TW	KJ5WY	++	KC5GKD
6	AC6BV	K06AY	++	KE6GVP
7	AB7CA	KI7YB	++	KC7CBL
8	AA80P	KG8IF	++	KB8SHJ
9	AA9KQ	KF9VF	N9WUM	KB9IXX
Hawaii	++	AH6NF	WH6UD	WH6CRG

Alaska	++	AL7PQ	WL7SF	WL7CHN
Virgin Is.	WP2L	KP2CC	NP2HL	WP2AHU
Puerto Rico	++	KP4WP	++	WP4MOZ

++All call signs in this group have been issued in this area.

NNNN

/EX

Type b

End of Info-Hams Digest V94 #581
